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The heteroecious rusts probably arose from the autoecious eu-forms, the change of hosts being made by the aecidiospore.

A study of the rusts having a perennial mycelium shows that about eighty such forms are known at present. Of these the numbers are about equally divided between those in which the gametophytic mycelium is perennial and those in which the sporophytic is perennial. Of especial interest are a few forms in which both a perennial gametophytic and a sporophytic mycelium occur on the same host. *Puccinia suaveolens*, *Uromyces glycyrrhizae* and *Puccinia Podophylli* are examples of this.

The yearly origin and dissemination of the rusts of the cereal grains was next discussed. Dr. Olive thinks it highly probable that infected seed produce infected plants and that this will explain the existence of wheat rust in regions free from barberry.

F. D. FROMME,
Secretary pro tem.

NEWS ITEMS.

Dr. Henry A. Gleason is to act as assistant professor of botany at the University of Michigan summer school, located near the Straits of Mackinac. Dr. H. N. Whitford and Mr. Guy West Wilson will also teach at this school during the coming summer.

At a recent meeting of the trustees of Wellesley College the following new appointments were made in the department of botany: Maude Gilchrist, associate professor; Christine F. Chapman, assistant; Helen I. Davis, curator of museum; Anna W. Devereaux, lecturer.

According to the *Evening Post* Prof. A. S. Pearse of Wisconsin University will accompany a scientific expedition to Colombia, South America, next summer, to study the plants and animals in the vicinity of Santa Marta. Dr. J. Ruthven, of Michigan, will lead the expedition.

Dr. Frank K. Cameron, of the United States Bureau of Soils, was in Seattle in April, arranging for the departure of two expeditions, which will leave Seattle May 1, to investigate the kelps of Alaska as a source of potash fertilizer. One party, in charge of Professor T. C. Frye, head of the botany department in

the University of Washington, will work in southern Alaska. With him will be Professor Robert B. Wylie, of the University of Iowa, and Mr. Dean Waynick, a student at the University of Washington. The other party, in charge of George B. Rigg, instructor in botany in the University of Washington, and special agent of the United States Department of Agriculture in the kelp investigation in 1911 and 1912, will investigate the kelp groves of western Alaska. With him will be Professor Robert F. Griggs, of Ohio State University, and Mr. Sanford M. Zeller, graduate assistant in botany in the University of Washington. A suitable fishing vessel has been chartered in Seattle for each expedition.

We regret to record the death on February 23 last of Mr. Henry Dautun, for many years an active member of the Torrey Club. He was born at St. Fargeau, Goune, France, in 1853. From his boyhood he displayed a natural taste for botany, which led to his collection of a herbarium, aggregating 31 thousand specimens, from all parts of the world. As mentioned in *TORREYA* for April, this collection was purchased by the Brooklyn Botanic Garden.

According to the *Evening Post*, Mary W. Stewart has been appointed as assistant in botany at Barnard for the coming school year.

From the same source, we learn that Miss W. J. Robinson, of Vassar, has been appointed as adviser for women at the summer school of the University of Wisconsin.

Mr. C. A. Wenzel, whose address is Jaro, Leyte, Philippine Islands, proposes to undertake an intensive botanical exploration of the Island of Leyte, one of the least known and most interesting islands in the Philippines from a botanical standpoint. His material will be determined by the botanists at the Bureau of Science, Manila, with the assistance of various specialists. Mr. Wenzel will be glad to enter into correspondence with any botanist or institution that desires Philippine botanical material.

Miss Eliza Shaw Torrey, the only surviving daughter of the late Dr. John Torrey, died in San Diego, California, on March 27, 1913. As recorded in *TORREYA* for January, Miss Torrey's

sister, Jane R. Torrey, died on December 14, last. Dr. Herbert J. Torrey, a brother of the recently deceased Misses Torrey, is the only surviving member of the family of Dr. John Torrey, the founder of the Torrey Club.

Addison Brown, for many years president of the Torrey Club, died on April 9, at his home on West 89th Street. He was born February 21, 1830, in West Newbury, Essex County, Mass. The son of Addison and Catharine Babson Griffin Brown, his ancestors on both sides were among the early settlers of that state, the Rev. John Rogers, on his mother's side, having been a graduate of Harvard College in 1649, and its president in 1682, another ancestor being Thomas Dudley, second Governor of Massachusetts. In 1848, he entered Amherst College, and in 1849 joined the sophomore class at Harvard, where he graduated second in rank, in 1852. For twenty years he served with distinction as judge of the United States District Court for the southern district of New York. He devised the charter of the New York Botanical Garden, and his subsequent services to that institution have been very great. He was president of the garden at the time of his death. In 1896-8, he published with Dr. N. L. Britton the well-known "Illustrated Flora." Besides the Torrey Club, Judge Brown was a member of the New York Geographical and Historical Societies, of the Century and Metropolitan Clubs, and the Sons of the American Revolution. His largest public bequest, estimated at \$21,750, is to the New York Botanical Garden. He gives that organization 200 shares of United States Steel preferred, to be known as the Addison Brown fund, "the income from which shall be applied to the founding of a high class magazine bearing my name, to be devoted exclusively to illustration by colored plates of the plants of the United States and its territorial possessions."

Mr. J. T. Sarvis, instructor in botany at the South Dakota State College, has resigned to enter the service of the United States Department of Agriculture, with headquarters at the dry land experiment station at Ardmore, South Dakota.

Dr. and Mrs. N. L. Britton and party have returned from a three months' botanical exploration of the West Indies.

Mr. J. Pierpont Morgan died in Rome, on March 31. Besides the many other activities in which Mr. Morgan was interested, he was a member of the board of managers of the New York Botanical Garden.

A telegraphic dispatch to the *Evening Post* announces the appointment of Dr. William Trelease, recently director of the Missouri Botanical Garden, as professor of botany in the University of Illinois, at Urbana. He succeeds Dr. T. J. Burrill, retired, who, as professor, dean, and vice-president, has been connected with the university since 1868.

The geological survey of Alabama has still some copies of "Mohr's Plant Life of Alabama," for distribution. Bound or unbound copies are to be had gratis by applying to the State Geologist, University, Ala. Thirty-two cents in postage should be sent in letters asking for the book.

Professor Lester F. Ward, recognized as one of the foremost American social philosophers, a geologist of note and author of many scientific works, died April 18, at Washington, aged eighty-one years. He was a native of Joliet, Ill. Professor Ward was first president of the American Sociological Society, at different periods served as president of the Institute International de Sociologie, and as a member of the faculty of Brown University, and for many years was on the staff of the National Museum.

Among Professor Ward's written contributions to science are "Dynamic Sociology," "Sketch of Paleobotany," "Synopsis of the Flora of the Laramie Group," "Types of the Laramie Flora and Geographical Distribution of Fossil Plants." He also collaborated with James Q. Dealey in the writing of a textbook on sociology.

Dr. Ira D. Cardiff, professor of plant physiology and bacteriology in the Washington State College, has been made head of the department. Professor J. G. Hall, of Clemson Agricultural College, South Carolina, has been appointed professor of plant pathology at the same institution.